

AN 1985-261925 [42] WPIDS <<LOGINID::20070104>>  
DNC C1985-113649 [21]  
TI Constructional steel - contains carbon, silicon, manganese,  
chromium, molybdenum, nickel, zirconium, calcium, nitrogen, barium, and  
iron  
DC M27  
IN MENSHIKOVA T Y A; POVAR V I; SVERDLOVA T I  
PA (AUTO-R) AUTOIRACTOR MATLS  
CYC 1  
PIA SU 1148893 A 19850407 (198542)\* RU 4[0]  
ADT SU 1148893 A SU 1982-3476598 19820730  
PRAI SU 1982-3476598 19820730  
AB SU 1148893 A UPAB: 20050426  
Addition of Ba to constructional steel increases its  
machinability. The mixture contains (in weight%): C 0.15-0.22, Si 0.17-0.37, Mn  
0.5-0.8, Cr 0.4-0.6, Mo 0.15-0.25, Ni 1.6-2,  
V 0.3-0.4, Zr 0.05-0.1, Ca 0.01-0.05, N 0.01-0.025, Ba  
0.01-0.05 and Fe the rest, and its heat treatment consists of  
oil hardening from 860 deg. and tempering for 2 hours at 200 deg.  
A typical mixture contains (in weight%): C 0.15, Si 0.17, Mn 0.5, Cr  
0.4, Ni 1.6, Mo 0.15, Zr 0.05, V 0.3, N  
0.01, Ca 0.01, Ba 0.01 and Fe the rest. Tests show  
that addition of Ba makes possible the machining at reduced speeds,  
and produces better finish.  
USE - Mfr. of automobile shafts and gears. Bul.13/7.4.85